

## ABSTRACT OF THE DISCLOSURE

A data transmission system using at cellular phones, in which existing transmission lines having a designated transmission capacity can be used efficiently, and the quality of video and audio data to be transmitted can be improved, is provided. The data transmission system using at cellular phones provides a video data encoder that encodes inputted video data, an audio data encoder that encodes inputted audio data, video data storage that stores encoded video data outputted from the video data encoder, audio data storage that stores encoded audio data outputted from the audio data encoder, and a multiplexer that multiplexes smoothed video data outputted from the video data storage and smoothed audio data outputted from the audio data storage, and transmits multiplexed video and audio data. And the data transmission system using at cellular phones further provides an audio signal detector which audio signals of the inputted audio data and an audio input switch signal are inputted to, and a multiplexing controller. And the audio signal detector measures audio levels of the inputted audio signals and generates a data write control signal for controlling the video data encoder and the audio data encoder and also generates an audio detected signal for controlling the multiplexing controller, and the multiplexing controller generates a data read control signal for controlling the video data storage and the audio data storage, and also generates a data multiplexing control signal for the multiplexer.

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